

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

re the Application of:

APPLICANTS: Hirohisa KISHI et al.  
SERIAL NO.: 09/981,999  
FILED: October 19, 2001  
FOR: FUELINJECTION VALVE BODY FOR DIRECT INJECTION  
TYPE INTERNAL COMBUSTION ENGINE  
ART UNIT: 3752  
EXAMINER: Davis D. Hwu

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to 37 CFR § 1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom. The filing of this Information Disclosure Statement and the enclosed PTO Form No. 1449, shall not be construed as an admission that the information cited is prior art, or is considered to be material to patentability as defined in 37 C.F.R. § 1.56(b). The paragraphs marked below are applicable. It is believed that no fees other than those indicated below are due, but authorization is hereby given to charge any additional fees due, or to credit any overpayment, to deposit account 11-0600.

☐ 1. This Information Disclosure Statement is being filed (a) within three months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. §1.53(d), (b) within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, (c) before the mailing date of a first Office Action on the merits in the present application, OR (d) before the mailing of a first office action after filing of a request for continued examination. No certification or fee is required.

☒ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a final action, Notice of Allowance, or any action that otherwise closes prosecution.

☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(1).

☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(2).

☒ c. Please debit Deposit Account No. 11-0600 in the amount of \$180.00 in payment of the fee under 37 CFR §1.17(p) to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached. 37 CFR §1.97(c)(2).

☐ 3. This Information Disclosure Statement is being filed after the mailing date of a final action, Notice of Allowance or an action that otherwise closes prosecution, but before payment of the Issue Fee. Applicant(s) hereby request(s) that the Information Disclosure Statement be considered. Please debit Deposit Account No. 11-0600 in the amount of \$180.00 in payment of the petition fee under 37 CFR §1.17(p) to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.

☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in any counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(1).

☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(2).

☐ 4. Relevance of the non-English language reference(s) is discussed in the present specification.

☒ 5. The reference(s) was/were cited in a counterpart foreign application. An English language version of the foreign office action is attached for the Examiner's information.

☒ 6. A concise explanation of the relevance of the following non-English language references appears in the Appendix attached hereto: JP(U) 52-139915; JP(A) 60-187754; JP(U) 58-109555; and JP(A) 52-043032.

☐ 7. The Examiner's attention is directed to co-pending U.S. Patent Application No. \_\_\_\_\_, filed, which is directed to related technical subject matter. The identification of this U.S. Patent Application is not to be construed as a waiver of secrecy as to that application now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited application and the art cited therein during examination of the present application.

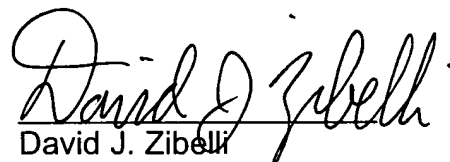
☐ 8. This application is one of a series of related applications, identified in the attached Appendix, which are directed to related technical subject matter. The identification of those U.S. Patent Applications is not to be construed as a waiver of secrecy as to those applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during the examination.

☐ 9. The reference(s) was/were cited by or submitted to the Office in parent application No. \_\_\_\_\_, filed \_\_\_\_\_, which is relied upon for an earlier filing date under 35 U.S.C. §120. Thus, copies of these references are not attached. 37 CFR §1.98(d).

☒ 10. English-language Abstracts of the following non-English language references are attached hereto: JP(A) 2000-073919; JP(A) 09-112392; WO 00/49287; and JP(A) 60-116848.

Respectfully submitted,

KENYON & KENYON

  
David J. Zibelli  
Registration No. 36,394

Date: July 21, 2004

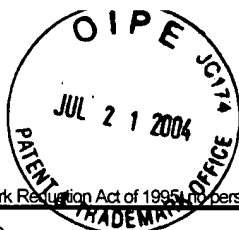
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DJZ/lmq

## APPENDIX

The relevance of the non-English language references is discussed below.

1. JP(U) 52-1339915. In a fuel injection valve, a cap nut is provided. The cap nut is screwed to a nozzle body at the portion where a nozzle hole is formed thereon.
2. JP(A) 60-187754. In a fuel injection valve, a cap which has a slit is provided. The cap is an insulator ring. A tip portion of a nozzle body is covered by the cap. A space is formed between the tip portion of the nozzle body and the cap.
3. JP(U) 58-109555. In a fuel injection valve, a spiral groove is formed on the surface of a needle valve of the fuel injection valve. Fuel is injected with a spiral flow to a pressurized chamber disposed between the needle valve and a nozzle body.
4. JP(A) 52-043032. In a fuel injection valve, a spiral groove is formed on the surface of a needle valve of the fuel injection valve. Fuel is injected with a spiral flow to a pressurized chamber disposed between the needle valve and a nozzle body.



PTO/SB/08a (08-03)

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

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of

1

**Complete if Known**

Application Number	09/981,999
Filing Date	October 19, 2001
First Named Inventor	Hirohisa KISHI et al.
Art Unit	3752
Examiner Name	Davis D. Hwu
Attorney Docket Number	10517/111

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Abstract Attached
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
		JP(a) 2000-073919	Mar. 7, 2000	M. Antonio		Yes
		JP(A) 09-112392	Apr. 28, 1997	N. Yutaka		Yes
		WO 00/49287	Aug. 24, 2000	F. Boecking		Yes
		JP(A) 60-116848	Jun. 24, 1985	O. Minoru		Yes
		JP(A) 60-187754	Sep. 25, 1985			No
		JP(A) 52-043032	Apr. 4, 1977			No

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Japanese Utility Model Application No. 51-048037 (Japanese Utility Model Laid-Open Publication No. 52-139915), Y. Yoshinori et al., Oct. 24, 1977 (in Japanese).	
		Japanese Utility Model Application No. 57-187266 (Japanese Utility Model Laid-Open Publication No. 58-109555), G. Buriyuune et al., Jul. 26, 1983 (in Japanese).	
		Notification Concerning Rejection Reason, Official Communication from the Japanese Patent Office, Patent Application No. 2000-322581; Drafting date, December 15, 2003 (in Japanese with full translation in English).	

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.